



# Online MATH 1010 INTERMEDIATE ALGEBRA Summer Semester 2013

INSTRUCTOR: Zeph Smith EMAIL: [zsmith11@bruinmail.slcc.edu](mailto:zsmith11@bruinmail.slcc.edu)

OFFICE: N326G (Online Office Hours) PHONE: 801-957-3229

CONSULTATION HOURS: TBD

INSTRUCTOR WEB SITE: <http://mathslcc.weebly.com>

MATHEMATICS DEPARTMENT WEB SITE: <http://www.slcc.edu/math/>

## REQUIRED MATERIALS:

- *MyMathLab* access for Intermediate Algebra 8<sup>th</sup> Edition by Marvin L. Bittinger & David J. Ellenbogen (Publisher Addison Wesley). A *MyMathLab* access code may come packaged with NEW and USED textbooks or can be purchased separately at a bookstore or online directly from <http://pearsonmylabandmastering.com/>. Students can also gain temporary access for 17 free trial days at the website.



## RECOMMENDED MATERIALS:

- Intermediate Algebra 8<sup>th</sup> Edition by Marvin L. Bittinger & David J. Ellenbogen (Publisher Addison Wesley). The complete textbook is available online as an eBook with your *MyMathLab* access; however most past students recommend that you also have a paper copy of the text. Note that some websites offer rentals.



## SLCC is committed to fostering and assessing the following student learning outcomes in its programs and courses:

- Acquiring substantive knowledge in the field of their choice
- Developing quantitative literacies
- Developing the knowledge and skills to be civically engaged
- Thinking critically
- Communicating effectively

**GENERAL EDUCATION STATEMENT:** This course fulfills the **Quantitative Studies (QS)** requirement for the General Education Program at Salt Lake Community College. It is designed not only to teach the information and skills required by the discipline, but also to develop vital workplace skills and to teach strategies and skills that can be used for life-long learning. General Education courses teach basic skills as well as broaden a student's knowledge of a wide range of subjects. Education is much more than the acquisition of facts; it is being able to use information in meaningful ways in order to enrich one's life. While the subject of each course is important and useful, we become truly educated through making connections of such varied information with the different methods of organizing human experience that are practiced by different disciplines. Therefore, this course, when combined with other General Education courses, will enable you to develop broader perspectives and deeper understandings of your community and the world, as well as challenge previously held assumptions about the world and its inhabitants.

# INTRODUCTION

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Welcome to Online MATH 1010 Intermediate Algebra at Salt Lake Community College! Please read this syllabus carefully. It will answer most of the questions you may have about how MATH 1010 fits in with your goals as a student at Salt Lake Community College and will detail the requirements you must meet to complete the course.

MATH 1010 Intermediate Algebra provides the necessary background for: MATH 1030 Quantitative Reasoning, MATH 1040 Introduction to Statistics, MATH 1050 College Algebra, and MATH 1090 College Algebra for Business Students

**COURSE DESCRIPTION:** This course covers in more depth basic algebra concepts introduced in Elementary Algebra. Topics of study include: linear equations and inequalities; quadratic equations; polynomial and rational expressions; radicals and complex numbers; exponential expressions (negative and rational exponents) and logarithmic expressions; linear systems of equations; introduction to conic sections; introduction to functions. Graphing of functions will be done by hand. Real world applications of algebra will be addressed throughout the course.

**PREREQUISITES:** This course is for students who have successfully completed an introductory algebra course, such as MATH 0990, with a grade of C or better **within the past year**, or who otherwise qualify by virtue of acceptable CPT or ACT scores achieved **within the past year**. Substitutions for the introductory algebra course include an ACT score of 18 or better, or a CPT score of at least 54 on the Elementary Algebra section. **If you do not have documentation for one of these prerequisites within the past year, you must enroll in a math class appropriate for your background.** Students enrolling in MATH 1010 must have also completed RDG 0900 or achieved an appropriate CPT score.

Students taking MATH 1010 need to have a solid foundation in arithmetic, including operations involving fractions, decimals, percent, signed numbers, and positive exponents. Prerequisite algebra skills include a working knowledge of polynomial operations, including factoring, 2D coordinate systems, slope and intercept, absolute value, and square root, and the ability to solve linear equations as well as two equations in two unknowns. Elementary algebra topics will be covered only briefly and in conjunction with new material. Students should review the material independently.

**COURSE OBJECTIVES:** Upon completion of this course students should:

1. Have competent algebraic skills for: three by three linear systems with unique solutions; operations with polynomials, radicals, rational expressions, and absolute values; and have competent algebraic and graphic skills for: equations of lines, two by two systems, inequalities, and the quadratic equation.
2. Understand how linear equations, quadratics, systems, radicals, and graphs relate to realistic applications.
3. Advance readily to higher-level college mathematics courses.

## TECHNOLOGY REQUIREMENTS FOR THIS ONLINE CLASS

**CALCULATOR:** You will need a scientific calculator for approximation of radicals and logarithmic expressions on homework and projects for this class. Students are expected to be able to perform basic calculations, such as addition of fractions, without a calculator. It is a SLCC Mathematics departmental policy in the Math 1010 course that a **graphing calculator will NOT be allowed on any exams including the midterm exams and the final exam.**

In online Math 1010, you will be permitted to use a scientific calculator on the midterm exams and final exam.

**COMPUTER REQUIREMENTS:** The course content, including learning modules, video clips, worked examples, homework assignments, tests, announcements, and all other course information are located in our class *MyMathLab* site through <http://pearsonmylabandmastering.com/>. You will need **daily access to a high-speed internet connection** for multimedia content. Due dates will not be adjusted for individual connection problems, so please identify some alternative options should your primary computer or connection have a problem. The math lab in LIB 044, the learning centers, the SLCC library, public libraries, etc. are all locations where you can complete your coursework even if you are having access problems at home.

**TECHNICAL PROBLEMS:** For *MyMathLab* technical support you can chat, phone, or email. Visit [http://mymathlab.com/contactus\\_stu.html](http://mymathlab.com/contactus_stu.html) to contact them. If the *MyMathLab* site is not working, try going to the “backdoor” at <http://www.mathxl.com> and clicking on the *MyMathLab* User log-in at the bottom of the screen.

You will frequently need a **printer** for printing things like the course calendar, reading assignments, projects, homework exercises, etc.

You will need access to a **scanner** in order to submit projects and other handwritten work. The scans do not need to be in color, but you need to save files as a single PDF formatted file. If you do not have your own scanner, most copy centers can scan a document and save it to a USB drive for you for a small fee.

Your computer must meet **minimum system requirements** (detailed here <http://pearsonmylabandmastering.com/system-requirements/>) to work with <http://pearsonmylabandmastering.com/> and the *MyMathLab* program

To participate in live virtual classroom sessions, including exam reviews, you will need to be able to use the **Wimba** program. Information about accessing Wimba, including installing necessary software, is available on our course *MyMathLab* site under the “Wimba Classroom” button. A headset with microphone and earphones is helpful but not necessary for your participation. Whether Wimba is used or not depends on your individual instructor.

## COURSE STRUCTURE and ASSESSMENTS

This online class will not have any face-to-face meetings however it will have strict due dates. You will learn the course material, communicate with your instructor and classmates, and complete homework, quizzes, and most tests in our class *MyMathLab* site (housed within <http://pearsonmylabandmastering.com/> ). You will work independently to learn the material, using available resources including your textbook, recorded video lectures, etcetera. You will then practice your skills by completing online homework exercises and quizzes with strict due dates. You will complete technology-based projects and participation assignments and will take timed online module tests, all with strict due dates. You will take three proctored exams at a testing center on specified days: two cumulative midterm exams and a comprehensive final exam.

Because of the time involved in learning the material outside of a classroom plus completing the assignments, you need to be able to dedicate several hours every weekday to this class. **You should be prepared to spend at least one hour each day for learning the material and at least two to three hours additionally for completing the homework assignments. That is at least three to four hours per day for a total of 15 to 20 hours per week minimum. If your schedule does not allow this time commitment you should consider taking Math 1010 another semester.**

**COMMUNICATION:** The primary method of communication in this class will be e-mail. You may use the e-mail system of your choice or the one in *MyMathLab*. When you register for *MyMathLab*, please use an email address that you will check regularly (you do not have to use your SLCC address, and you can set up your SLCC email address to automatically forward to another email). Your instructor will also post important information in our class *MyMathLab* announcements page. Please check your e-mail and the announcements page in *MyMathLab* every time you log-in as you are responsible for this information.

**GRADING:** Grades will be assigned according to this scale:

A	93-100%	C	73-76%
A-	90-92%	C-	70-72%
B+	87-89%	D+	67-69%
B	83-86%	D	63-66%
B-	80-82%	D-	55-62%
C+	77-79%	E	Below 55%

The grade you earn will be recorded on your SLCC transcript. Grades are not negotiable. No work will be accepted after the last day of class. Limited, if any, extra credit opportunities may be available. If you need to achieve a certain grade in this course be careful to complete all assignments, plan appropriate time for studying, and get help as needed so that you achieve your goal.

**POSTING OF GRADES:** Grades will be posted in your SLCC MyPage account by August 15<sup>th</sup>.

**ASSESSMENTS:** Your grade will be based on an accumulation of scores as follows:

<b>Homework</b>	<b>10%</b>	<b>Quizzes</b>	<b>10%</b>
<b>Project(s)</b>	<b>7.5%</b>	<b>ePortfolio</b>	<b>3.75%</b>
<b>Participation Assignments</b>	<b>3.75%</b>	<b>Online Module Tests</b>	<b>7-10%</b>
<b>Midterm Exam #1</b>	<b>15%</b>	<b>Midterm Exam #2</b>	<b>15%</b>
<b>Final Exam</b>	<b>25%</b>		

**VERY IMPORTANT:** Homework, Quizzes, and Module Tests will be completed online through our class *MyMathLab* site, and must be completed and submitted by **11:59 p.m. MST on the due date**. Due dates are listed on the course schedule and posted in *MyMathLab*. It will not be possible to access online module tests or section quizzes once the deadline has passed. **Finish assignments before the final due date. Please note that this course follows Mountain Standard Time. Students who are taking the course from another time zone will need to make the necessary adjustments.**

**HOMEWORK:** Your homework assignments will be completed online in *MyMathLab*. The best way to do online homework is to work problems in a notebook first, being careful to label each section and problem and working neatly as you would for written homework. Then enter your solutions online. You can copy the problems by hand or you can use the “print homework” feature of *MyMathLab* to print out the problems in the exercise set. The important part is to keep the steps you do for each problem easily accessible and organized as you will use this same notebook to study for the midterms and final exam.

You may redo and resubmit homework assignments as many times as you like up to the due date. Your last score will be the one recorded for each assignment. Due dates are listed in *MyMathLab* as well as on the class calendar. Some sections take longer than others to understand and complete. Working ahead of the schedule will allow you to ask questions and spend more time on the longer assignments. Internet access problems could prevent you from being able to finish assignments if you wait until the last day. Plan ahead so you won't be affected. Late homework has a 10% penalty. This only applies to problems from the assignment done after the due date.

**QUIZZES:** A short online quiz is assigned for each section. The quiz has the same due date as the homework assignment for that section. The quizzes contain problems similar to the homework, but without the built-in help options. These quizzes are a self-assessment to see if you can do the problems without help. You may retake each quiz up to 5 times if you are not happy with your score, up until the due date. The highest score for each quiz will count towards your course grade.

**PROJECTS and ePORTFOLIO:** All Math 1010 courses at Salt Lake Community College require projects. There will be two required projects in Math 1010 this semester with due dates indicated on the class calendar. These projects are designed to allow students to examine “real-world” applications using technology as a tool. You are encouraged to work with other students in the course to complete these projects. Information about these projects is posted in our class *MyMathLab* site, within Module 2 and 3. Make sure to place your project and reflection under the Quantitative Studies category (QS) of your ePortfolio.

**General Education ePortfolio:** Each student in General Education courses at SLCC maintains a General Education ePortfolio. Instructors in every Gen Ed course will ask you to put at least one assignment from the course into your ePortfolio, and accompany it with reflective writing. It is a requirement in this class for you to add to your ePortfolio, and this syllabus details the assignments and reflections you are to include. Your ePortfolio will allow you to include your educational goals, describe your extracurricular activities, and post your resume. When you finish your time at SLCC, your ePortfolio will then be a multi-media showcase of your educational experience. For detailed information visit <http://www.slcc.edu/gened/eportfolio>.

After you have picked an ePortfolio platform, go to the corresponding help site to watch the tutorials and look at the examples so you can get started on your own:

<https://sites.google.com/site/slccport>

<http://slcceportfolio.wordpress.com>

<http://slcceportfolio.weebly.com>

If you would like to start your ePortfolio in a computer lab with a person there to help you, sign up online for one of the free workshops at the Taylorsville-Redwood library: <http://libweb.slcc.edu/services/forms/eportfolio>. You may also visit an ePortfolio Lab (in the Taylorsville-Redwood Library LIB 047 as well as in HTC 102a on the Jordan Campus) during business hours, and staff will help you without an appointment. Finally, questions regarding the ePortfolio can be directed to [eportfolio@slcc.edu](mailto:eportfolio@slcc.edu).

**PARTICIPATION ASSIGNMENTS:** As a general education course, students in Math 1010 are required to participate in some group/interactive work with classmates. You will participate in this class by doing discussion board assignments. These total to 3.75% of your grade.

**MODULE TESTS:** You have two attempts each on seven online module tests during the semester, approximately one for each included chapter in the textbook. These tests will be timed – you will have 90 minutes to complete each test in *MyMathLab*. Once you access the test, the time starts and you must complete it. **No online test can be taken after its due date - please make sure you complete the online tests by the date posted on the calendar or you will earn a grade of zero for that test.** All online tests will be closed book, closed notes, no helps. Failure to take the tests under these conditions is a violation of the SLCC student code of conduct and will cheat you out of preparation for the midterm exams and the final exam given with the same restrictions.

**MIDTERM EXAMS AND FINAL EXAM:** This course requires two proctored midterm exams and a proctored final exam. **It is an SLCC Math Department policy that you will receive a grade no higher than a D in Math 1010 if your final exam score is lower than 60%.** This course requires testing to be completed in-person at a SLCC Instructional Testing Center or facilitated at another location by an approved proctor. The midterm and final reviews that are located in the homework section are for your own use and do not count towards your grade.

**Students who live in Salt Lake County** are required to go to the Instructional Testing Center for exams. Instructional Testing Centers are located at Taylorsville Redwood Campus, Construction Trades Building (CT), Suite 070 and at South City Campus, Main Building, Suite N-287. You must show a current college ID “SLCC one card” to take an

exam. ID's are available in the Student Center. **To take an exam at the Instructional Testing Center, you must make a reservation** for a specific day and time. For more information, go to <http://www.slcc.edu/online/getstarted/proctor.aspx#in>.

**Students who live outside of Salt Lake County** must arrange for a proctor through the Distance Education Service Center. **Proctors need to be approved by the second week of the semester.** Go to <http://www.slcc.edu/online/getstarted/proctor.aspx#out> for information on arranging for a proctor.

### **CUMMULATIVE MIDTERM EXAMS:**

The midterm exams will be paper/pencil exam; not on a computer. There will be around 20 questions on each test. The majority of the test questions will not be multiple choice, but will require you to carefully show your work. You will be awarded partial credit on these questions. Show all steps toward your final solution clearly and concisely. Answers with no logical steps or work that cannot be read or clearly followed will be marked incorrect. You will be allowed 120 minutes to complete each midterm exam.

The first midterm exam will cover material learned in Chapters 1-5. You must take the first midterm exam on **June 20<sup>th</sup> or June 21<sup>st</sup>**.

The second midterm exam will cover material learned in Chapters 6 and 7 plus 1.6. You must take the second midterm exam on **July 18<sup>th</sup> or 19<sup>th</sup>**.

### **FINAL EXAM:**

The final exam for Math 1010 will be a paper/pencil comprehensive departmental examination emphasizing topics listed under the course objectives. You will have 120 minutes to complete the exam. You must take the exam on **August 8<sup>th</sup>, 9<sup>th</sup>, or 10<sup>th</sup>**.

### **UPGRADE OPPORTUNITIES:**

After the completion of each chapter test you will receive an upgrade opportunity. First, I will submit zeros for any incompletes. This means that if you didn't do a quiz, homework section, or the test, by its due date, I will use up one of your attempts to enter a zero. This would leave you with 4 attempts on a quiz, or only one attempt left on a test. Then I will extend the due dates for all of the quizzes and the test from that chapter for a certain number of days. This information will be sent to you in an email. During this time you may use any attempts you have left on any quiz or the test. If you already took a quiz or the test and want to try to get a better score, this opportunity is a great time to try. As always, I only take the highest score you get on quizzes or the tests, so you can do no harm to your grade by making another attempt.

It is in your best interest to take the quiz or test before the due date so you can use all of your attempts to get the best score you can.

## SUCCEEDING IN AN ONLINE MATH CLASS

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Intermediate Algebra is a challenging course; however there are many available resources to help you succeed.

**STRATEGIES FOR SUCCESS:** It is very important in an online class that you set aside time each day to work on the course so that you can remain on schedule. You can do a better job at both understanding and retaining the material if you learn at an even pace. Trying to “cram” too much in one sitting will result in frustration and lower retention of the material. Recognize that you need time both to learn the material and time to complete your homework and quiz for each section. It will take a significant investment of time each day to be successful in this course.

To be successful over the course of the semester you will want to always work a couple of days ahead of the schedule so that you won't miss deadlines if something comes up. It is important that you have the course calendar readily available and refer to it frequently.

As with any math course, you need to find the best way for you to learn the concepts and skills. There are many options, including reading the textbook, taking notes, listening to an audio lecture, watching a video lecture, and many others. It is also crucial that you seek help when you need it. At the very beginning of the course you should spend time familiarizing yourself with available resources in MyMathLab, on campus, etcetera.

**SLCC RESOURCES FOR EXTRA HELP:** Free tutoring is available in the Math Lab (LIB 044) and the Learning Centers. The Learning Center also maintains a Wimba classroom for online tutoring. You can find details about how to access as well as locations, hours, and a list of private tutors who may be hired at <http://www.slcc.edu/learningcenter/>.

**MATH 1015 WORKSHOP CLASS:** The Mathematics Department offers a supplemental workshop to accompany this course. MATH 1015 Intermediate Algebra Workshop is a 1 credit hour course that provides a review of topics in MATH 1010 and additional practice on problem solving through collaborative learning. See the current semester schedule of classes for course offerings this semester and MyPage to register for the course.

**MyMathLab RESOURCES:** There are many resources within the MyMathLab program that you can use for additional help. The textbook publisher provides a FREE Math Tutor Center with qualified college instructors providing tutorial support 5 days a week, 7 hours a day.



## STANDARDS and INFORMATION

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**STUDENT CODE OF CONDUCT:** All students at SLCC must comply with the Salt Lake Community College Student Code of Conduct: [http://www.slcc.edu/policies/docs/Student Code of Conduct.pdf](http://www.slcc.edu/policies/docs/Student_Code_of_Conduct.pdf). In particular, note the Academic Standards on pages 38 and 39 with regards to cheating, misrepresentation, out-of-class work, and plagiarism. In compliance with this document, a student who is academically dishonest will receive an E for this course.

**CLASSROOM DEPARTMENT:** Each student is responsible for his/her own behavior. Any student who shows a pattern of disrespect for others, or who at any time displays egregious disrespect for others, will be subject to penalties as per the student code of conduct.

**PERMANENT FOLDER:** To minimize the possibility of computer or human error all graded homework, projects, and exams should be kept by the student until you have received your final grade for the course.

**WITHDRAWAL POLICY:** Students may withdraw from the course through **July 5<sup>th</sup>**. NO withdrawals will be approved after that date.

**ACCOMMODATIONS:** Students with medical, psychological, learning or other disabilities desiring accommodations or services under ADA, must contact the Disability Resource Center (DRC ). The DRC determines eligibility for and authorizes the provision of these accommodations and services for the college. Please contact the DRC at the Student Center, Suite 244, Redwood Campus, 4600 So. Redwood Rd, 84123. Phone: (801) 957-4659, TTY: 957-4646, Fax: 957- 4947 or by email: [linda.bennett@slcc.edu](mailto:linda.bennett@slcc.edu).

Finally, read and be aware of the regulations set forth in the SLCC college catalog. Please see your instructor ASAP about any problems that are affecting your work in this class.